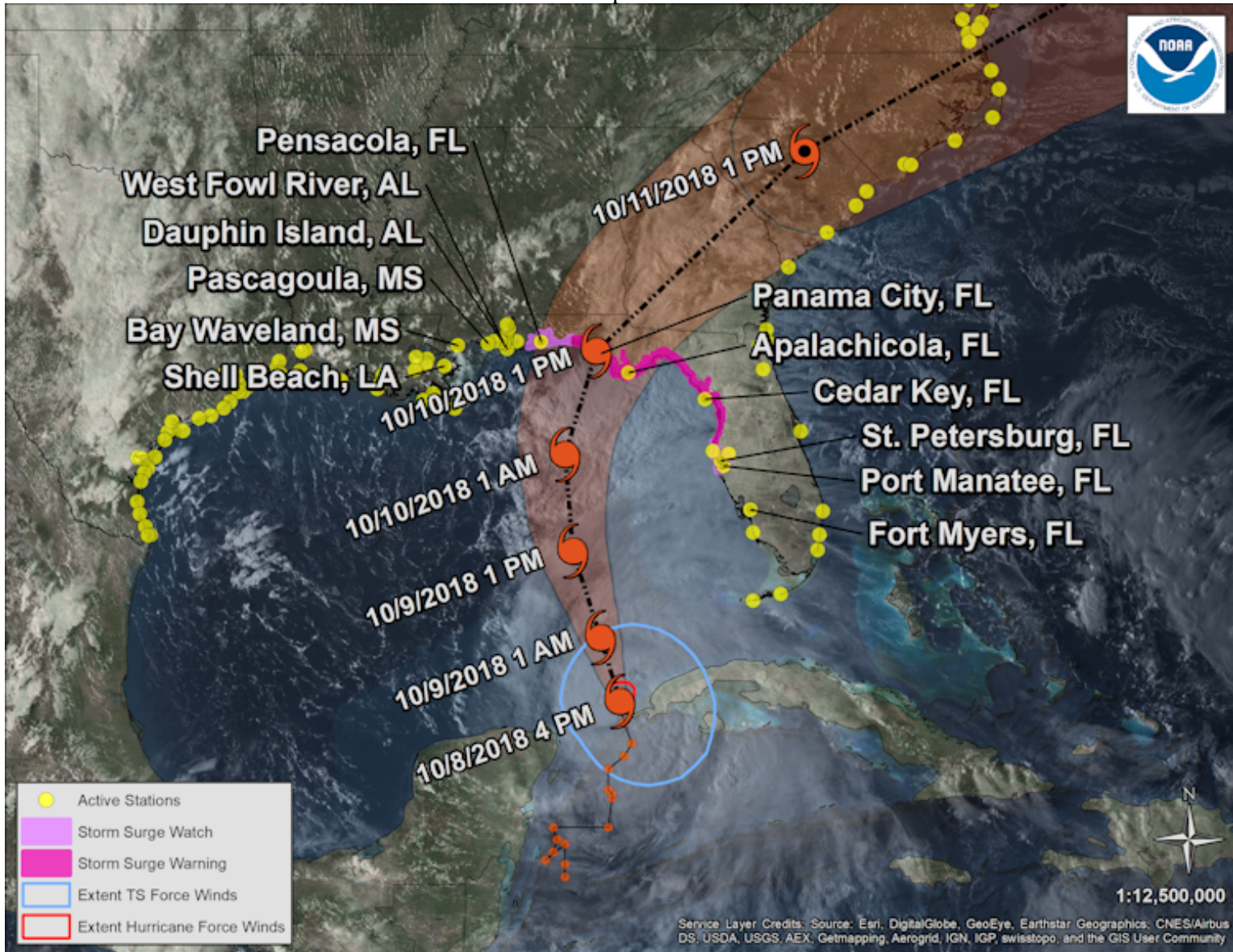




Hurricane Michael QuickLook  
Posted: 17:00 CDT 10/08/2018

#### NOAA and NOAA Partnership Stations Relative to the Storm



#### Storm Analysis

As of 10/08/2018 17:00 CDT, water levels along the west coast of Florida up to Cedar Key are near normal tide levels, running 1 foot or less above predictions at this time. Along the Florida panhandle westward to the coast of Louisiana, water levels are running between 1 and 2.2 ft above tide predictions this evening. Winds are steady between 10 and 20 knots across the Gulf Coast. Barometric pressure is gradually falling across the region.

Water Level and Meteorological plots available below are updated automatically. A line denoting Mean Higher High Water (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

For additional real-time and historical inundation information for select stations affected by this storm, please visit Coastal Inundation Dashboard. For additional data, please see the Center for Operational Oceanographic Products & Services website.

For more information or archived products and reports, please visit the Storm QuickLook Homepage.

Analyst: CRD

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Select National Hurricane Center Advisory Information: Hurricane Michael Advisory Number 9  
NWS National Hurricane Center Miami FL  
400 PM CDT Mon Oct 08 2018

...MICHAEL BRINGING HURRICANE-FORCE WINDS AND HEAVY RAINFALL TO  
WESTERN CUBA...  
...STORM SURGE AND HURRICANE WARNINGS ISSUED FOR THE NORTHEASTERN  
GULF COAST...

#### SUMMARY OF 400 PM CDT..INFORMATION

-----  
LOCATION...22.2N 85.2W  
ABOUT 30 MI.. NW OF THE WESTERN TIP OF CUBA  
ABOUT 520 MI...S OF APALACHICOLA FLORIDA  
MAXIMUM SUSTAINED WINDS...80 MPH  
PRESENT MOVEMENT...N OR 355 DEGREES AT 9 MPH  
MINIMUM CENTRAL PRESSURE...978 MB

#### WATCHES AND WARNINGS

##### ----- CHANGES WITH THIS ADVISORY:

A Storm Surge Warning has been issued for the Gulf Coast of Florida from the Okaloosa/Walton County Line to Anclote River.

The Storm Surge Watch has been extended west of Navarre Florida to the Alabama/Florida border.

A Hurricane Warning has been issued for the Gulf Coast of Florida from the Alabama/Florida border eastward to Suwannee River.

A Hurricane Watch has been issued from the Alabama/Florida border westward to the Mississippi/Alabama border.

A Tropical Storm Warning has been issued from the Alabama/Florida border westward to the Mississippi/Alabama border and from Suwannee River Florida southward to Chassahowitzka Florida.

A Tropical Storm Watch has been issued from the Mississippi/Alabama border westward to the Mouth of the Pearl River.

#### SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Storm Surge Warning is in effect for...

- \* Okaloosa/Walton County Line Florida to Anclote River Florida

A Storm Surge Watch is in effect for...

- \* Anclote River Florida to Anna Maria Island Florida, including Tampa Bay
- \* Alabama/Florida border to Okaloosa/Walton County Line Florida

A Hurricane Warning is in effect for...

- \* Alabama/Florida border to Suwannee River Florida
- \* The Cuban province of Pinar del Rio

A Hurricane Watch is in effect for...

- \* Alabama/Florida border to the Mississippi/Alabama border

A Tropical Storm Warning is in effect for...

- \* Alabama/Florida border to the Mississippi/Alabama border
- \* Suwannee River Florida to Chassahowitzka Florida
- \* The Cuban province of the Isle of Youth
- \* The coast of Mexico from Tulum to Cabo Catoche, including Cozumel

A Tropical Storm Watch is in effect for...

- \* Chassahowitzka to Anna Maria Island Florida, including Tampa Bay
- \* Mississippi/Alabama border to the Mouth of the Pearl River

A Storm Surge Warning means there is a danger of life-threatening inundation, from rising water moving inland from the coastline, during the next 36 hours in the indicated locations. For a depiction of areas at risk, please see the National Weather Service Storm Surge Watch/Warning Graphic, available at [hurricanes.gov](http://hurricanes.gov). This is a life-threatening situation. Persons located within these areas should take all necessary actions to protect life and property from rising water and the potential for other dangerous conditions. Promptly follow evacuation and other instructions from local officials.

A Hurricane Warning means that hurricane conditions are expected somewhere within the warning area. A warning is typically issued 36 hours before the anticipated first occurrence of tropical-storm- force winds, conditions that make outside preparations difficult or dangerous. Preparations to protect life and property should be rushed to completion.

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area within 36 hours.

A Storm Surge Watch means there is a possibility of life-threatening inundation, from rising water moving inland from the coastline, in the indicated locations during the next 48 hours.

A Hurricane Watch means that hurricane conditions are possible within the watch area. A watch is typically issued 48 hours before the anticipated first occurrence of tropical-storm-force winds, conditions that make outside preparations difficult or dangerous.

A Tropical Storm Watch means that tropical storm conditions are possible within the watch area, generally within 48 hours.

Interests elsewhere across the southeastern United States should monitor the progress of Michael.

For storm information specific to your area in the United States, including possible inland watches and warnings, please monitor products issued by your local National Weather Service forecast office. For storm information specific to your area outside the United States, please monitor products issued by your national meteorological service.

## DISCUSSION AND OUTLOOK

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At 400 PM CDT, the center of Hurricane Michael was located near latitude 22.2 North, longitude 85.2 West. Michael is moving toward the north near 9 mph. A northward to north-northwestward motion at a slightly faster forward speed is expected through Tuesday night, followed by a northeastward motion on Wednesday and Thursday. On the forecast track, the center of Michael will move into the southeastern Gulf of Mexico this evening, then move across the eastern Gulf of Mexico Tuesday and Tuesday night. The center of Michael is expected to move inland over the Florida Panhandle or Florida Big Bend area on Wednesday, and then move northeastward across the southeastern United States Wednesday night and Thursday.

Maximum sustained winds have increased to near 80 mph with higher gusts. Steady to rapid strengthening is forecast during the next day or so, and Michael is forecast to become a major hurricane by Tuesday or Tuesday night.

Hurricane-force winds extend outward up to 35 miles from the center and tropical-storm-force winds extend outward up to 175 miles. A wind gust to 75 mph was reported at an observing site in Isabel Rubio in the Cuban province of Pinar del Rio earlier this afternoon.

The estimated minimum central pressure is 978 mb.

## HAZARDS AFFECTING LAND

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STORM SURGE: The combination of a dangerous storm surge and the tide will cause normally dry areas near the coast to be flooded by rising waters moving inland from the shoreline. The water has the potential to reach the following heights above ground if peak surge occurs at the time of high tide...

Indian Pass FL to Cedar Key FL...8-12 ft  
Cedar Key FL to Crystal River FL...6-8 ft  
Okaloosa/Walton County Line FL to Indian Pass FL...5-8 ft  
Crystal River FL to Anclote River FL...4-6 ft  
Anclote River to Anna Maria Island FL including Tampa Bay...2-4 ft  
Alabama/Florida border to Okaloosa/Walton County Line FL...2-4 ft

WIND: Hurricane conditions will continue over portions of the far western Cuban province of Pinar del Rio through this evening. Tropical storm conditions are expected across the remainder of the warning areas in Cuba and the Yucatan Peninsula through tonight.

Hurricane conditions are expected within the hurricane warning area along the U.S. Gulf Coast by Wednesday, with tropical storm conditions expected by Tuesday night or early Wednesday. Tropical storm conditions are expected in

the tropical storm warning area by Tuesday night or early Wednesday, and are possible within the tropical storm watch area by that time. Hurricane conditions are possible within the hurricane watch area by Wednesday.

RAINFALL: Michael is expected to produce the following rainfall amounts through Friday...

Western Cuba...4 to 8 inches, with isolated maximum amounts of 12 inches. This rainfall could lead to life-threatening flash floods and mudslides.

Florida Panhandle and Big Bend across Georgia into South Carolina... 4 to 8 inches, with isolated maximum amounts of 12 inches. This rainfall could lead to life threatening flash floods.

Florida Peninsula, Florida Keys, North Carolina, portions of the Mid-Atlantic States, and the southern New England coast...2 to 4 inches with isolated maximum amounts of 6 inches. This rainfall could lead to life-threatening flash floods.

Yucatan Peninsula...1 to 2 inches.

SURF: Swells generated by Michael are affecting the south coast of Cuba and the east coast of the Yucatan Peninsula. Swells are expected to begin affecting the coast of the eastern and northern Gulf of Mexico during the next day or so. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

#### NEXT ADVISORY

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Next intermediate advisory at 700 PM CDT.

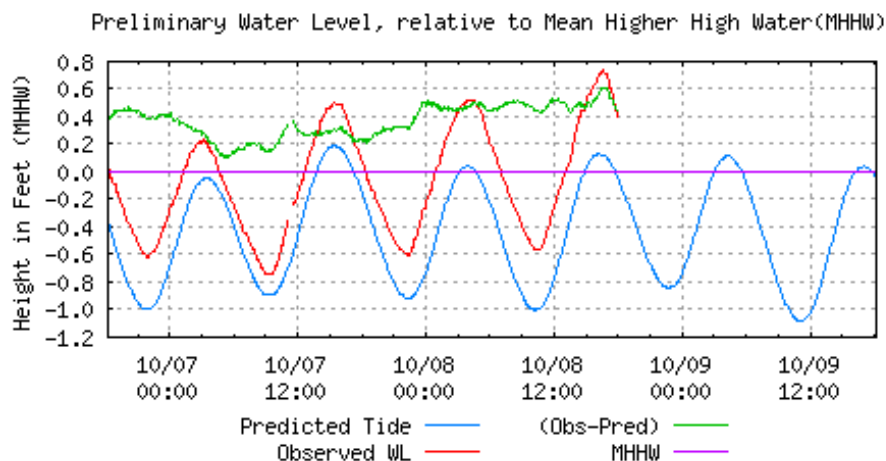
Next complete advisory at 1000 PM CDT.

Forecaster Brown

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Fort Myers, Caloosahatchee River - Water Level](#), [Fort Myers, Caloosahatchee River - Winds](#), [Fort Myers, Caloosahatchee River - Barometric](#), [Port Manatee - Water Level](#), [Port Manatee - Barometric](#), [St. Petersburg, Tampa Bay - Water Level](#), [St. Petersburg, Tampa Bay - Winds](#), [Old Port Tampa - Water Level](#), [Old Port Tampa - Barometric](#), [Cedar Key - Water Level](#), [Cedar Key - Winds](#), [Cedar Key - Barometric](#), [Apalachicola - Water Level](#), [Apalachicola - Winds](#), [Apalachicola - Barometric](#), [Panama City - Water Level](#), [Panama City - Winds](#), [Panama City - Barometric](#), [Pensacola - Water Level](#), [Pensacola - Winds](#), [Pensacola - Barometric](#), [Dauphin Island - Water Level](#), [Dauphin Island - Winds](#), [Dauphin Island - Barometric](#), [West Fowl River Bridge - Water Level](#), [Pascagoula NOAA Lab - Water Level](#), [Bay Waveland Yacht Club - Water Level](#), [Bay Waveland Yacht Club - Winds](#), [Bay Waveland Yacht Club - Barometric](#), [Shell Beach - Water Level](#), [Shell Beach - Winds](#), [Shell Beach - Barometric](#)

NOAA/NOS/CO-OPS 8725520 Fort Myers, Caloosahatchee River, FL



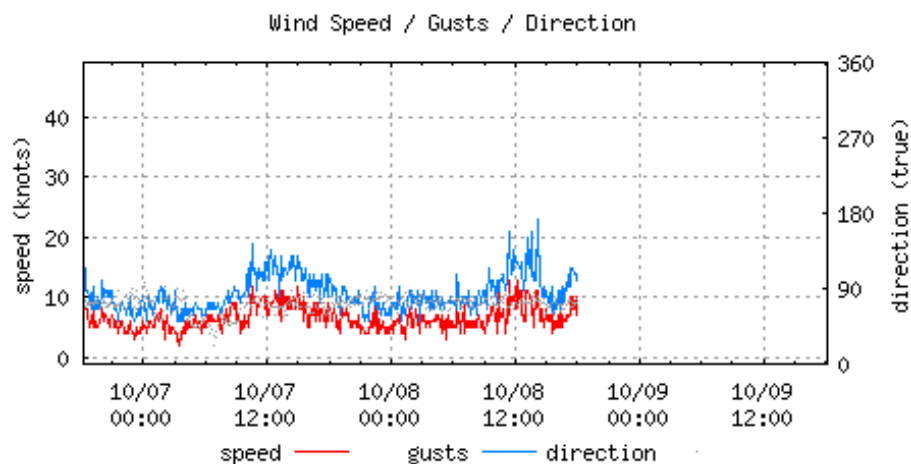
Last Observed Sample: 10/08/2018 18:06 (EDT). Data relative to MHHW

Observed: 0.37 ft. Predicted: -0.07 ft. Residual: 0.44 ft.

Historical Maximum Water Level: Nov 23 1988, 3.41 ft.

Next High Tide: 10/09/2018 04:16 (EDT), 0.11 ft.

NOAA/NOS/CO-OPS 8725520 Fort Myers, Caloosahatchee River, FL

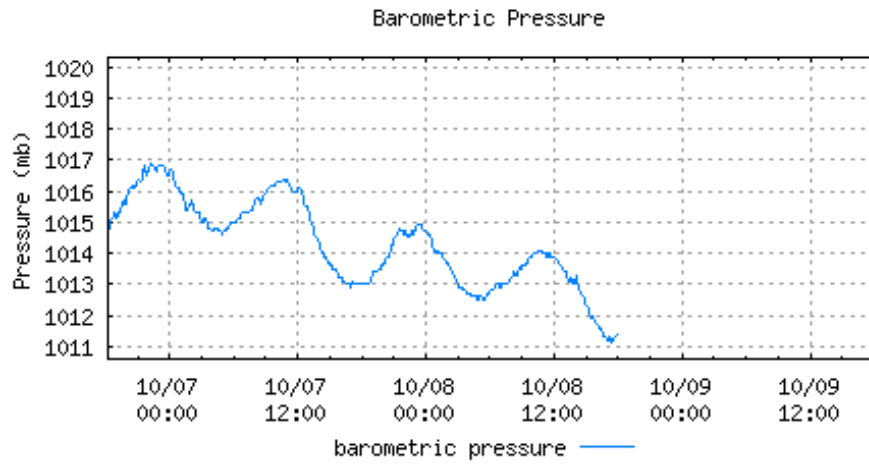


Last Observed Sample: 10/08/2018 18:06 (EDT)

Wind Speed: 6 knots Gusts: 11 knots Direction: 79° T



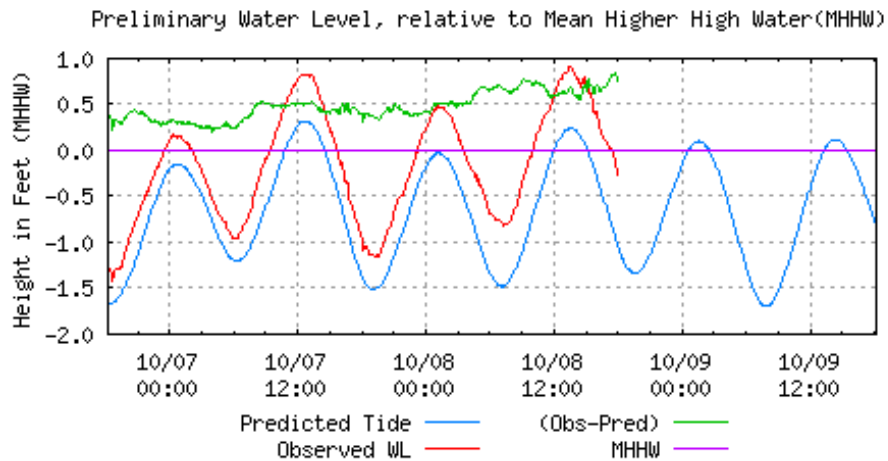
NOAA/NOS/CO-OPS 8725520 Fort Myers, Caloosahatchee River, FL



Last Observed Sample: 10/08/2018 18:06 (EDT)

Barometric Pressure: 1011.5 mb

NOAA/NOS/CO-OPS 8726384 Port Manatee, FL



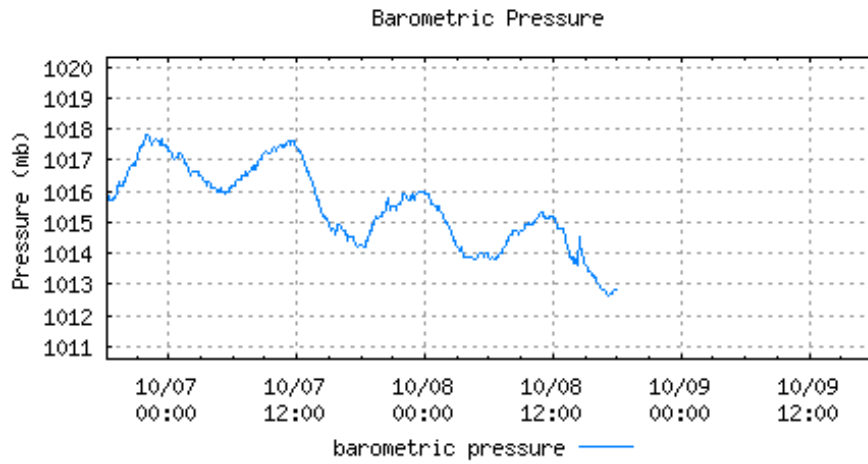
Last Observed Sample: 10/08/2018 18:06 (EDT). Data relative to MHHW

Observed: -0.26 ft. Predicted: -1.08 ft. Residual: 0.82 ft.

Historical Maximum Water Level: Sep 2 2016, 2.34 ft.

Next High Tide: 10/09/2018 01:36 (EDT), 0.10 ft.

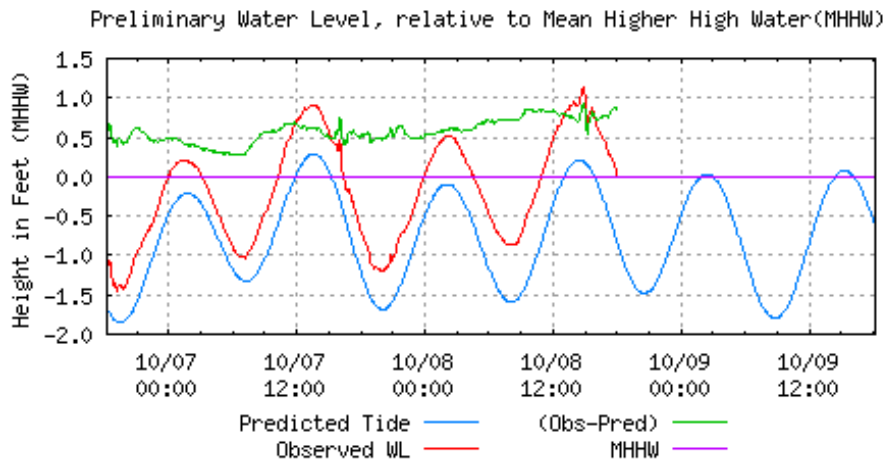
NOAA/NOS/CO-OPS 8726384 Port Manatee, FL



Last Observed Sample: 10/08/2018 18:06 (EDT)

Barometric Pressure: 1012.8 mb

NOAA/NOS/CO-OPS 8726520 St. Petersburg, Tampa Bay, FL



Last Observed Sample: 10/08/2018 18:00 (EDT). Data relative to MHHW

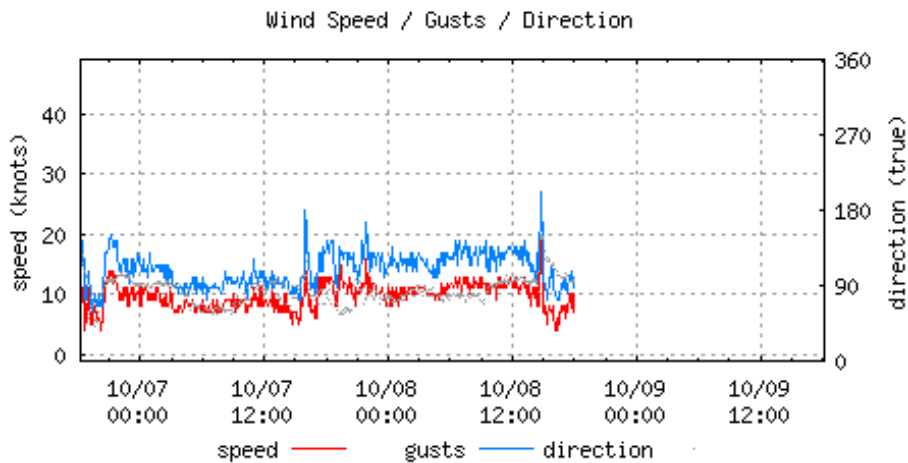
Observed: 0.02 ft. Predicted: -0.84 ft. Residual: 0.86 ft.

Historical Maximum Water Level: Aug 31 1985, 4.00 ft.

Next High Tide: 10/09/2018 02:25 (EDT), 0.04 ft.



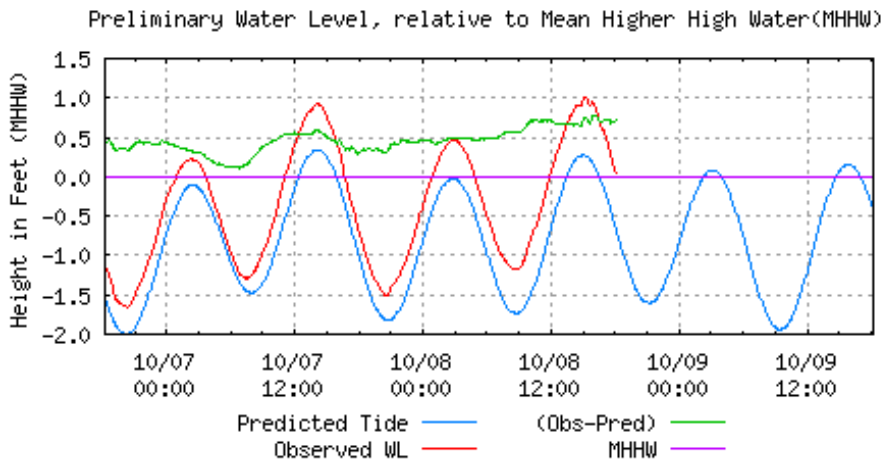
NOAA/NOS/CO-OPS 8726520 St. Petersburg, Tampa Bay, FL



Last Observed Sample: 10/08/2018 18:00 (EDT)

Wind Speed: 10 knots Gusts: 13 knots Direction: 97° T

NOAA/NOS/CO-OPS 8726607 Old Port Tampa, FL



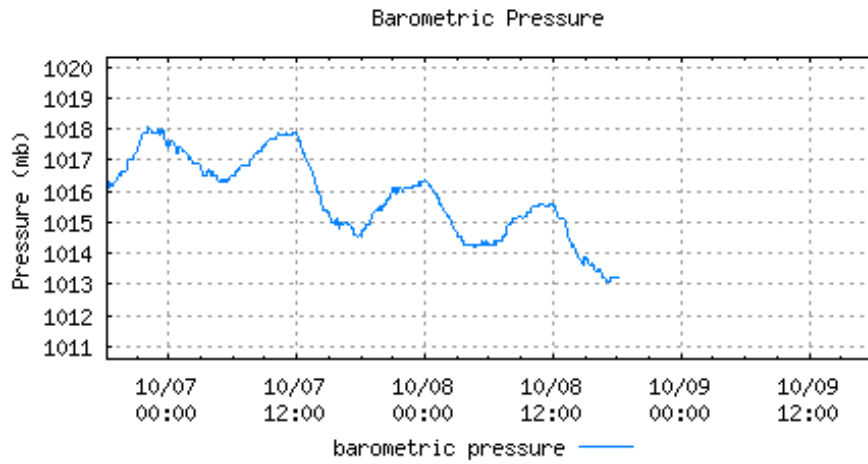
Last Observed Sample: 10/08/2018 18:12 (EDT). Data relative to MHHW

Observed: -0.01 ft. Predicted: -0.73 ft. Residual: 0.72 ft.

Historical Maximum Water Level: Oct 8 1996, 3.60 ft.

Next High Tide: 10/09/2018 03:09 (EDT), 0.08 ft.

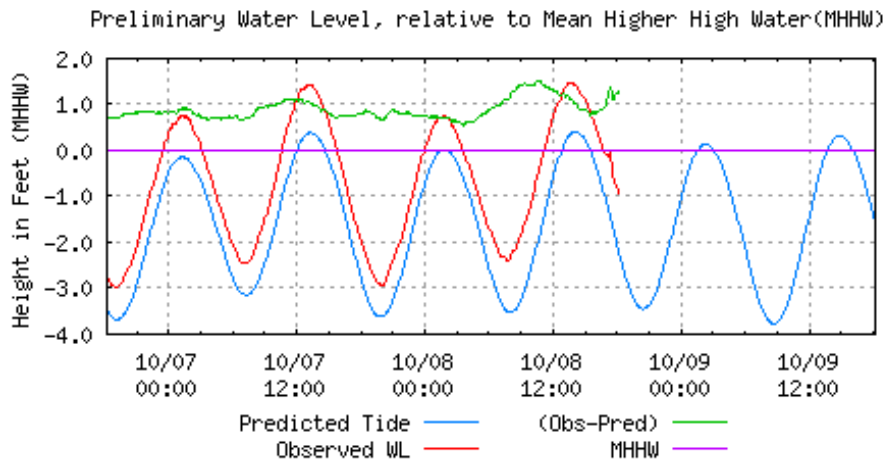
NOAA/NOS/CO-OPS 8726607 Old Port Tampa, FL



Last Observed Sample: 10/08/2018 18:12 (EDT)

Barometric Pressure: 1013.2 mb

NOAA/NOS/CO-OPS 8727520 Cedar Key, FL



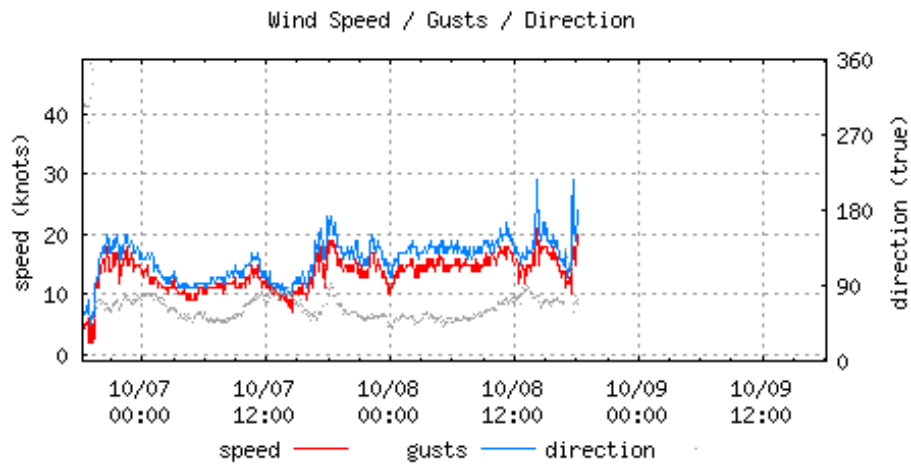
Last Observed Sample: 10/08/2018 18:12 (EDT). Data relative to MHHW

Observed: -0.94 ft. Predicted: -2.25 ft. Residual: 1.31 ft.

Historical Maximum Water Level: Sep 2 2016, 5.98 ft.

Next High Tide: 10/09/2018 02:18 (EDT), 0.14 ft.

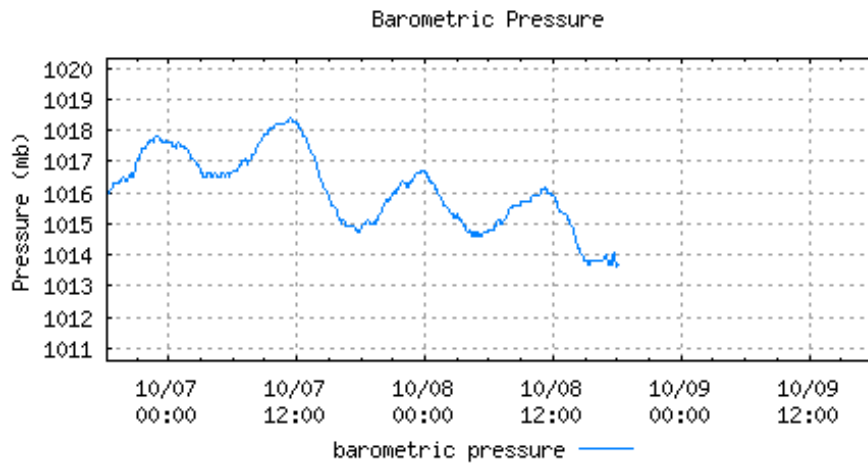
NOAA/NOS/CO-OPS 8727520 Cedar Key, FL



Last Observed Sample: 10/08/2018 18:12 (EDT)

Wind Speed: 20 knots Gusts: 23 knots Direction: 69° T

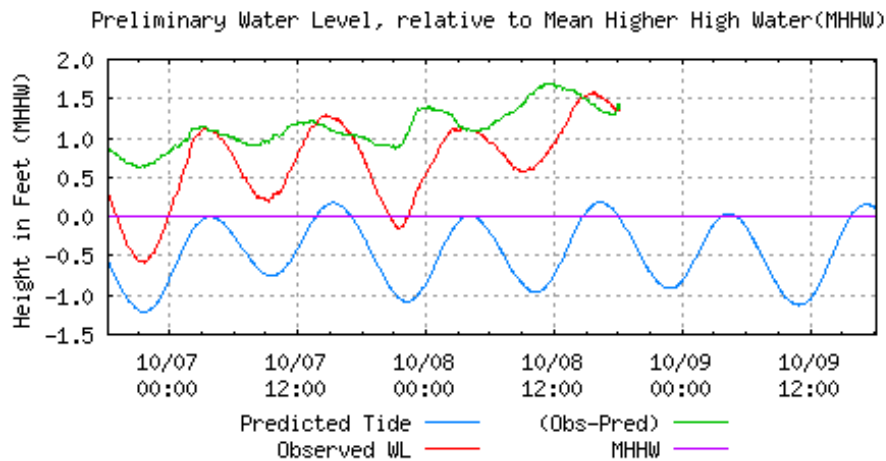
NOAA/NOS/CO-OPS 8727520 Cedar Key, FL



Last Observed Sample: 10/08/2018 18:12 (EDT)

Barometric Pressure: 1013.7 mb

NOAA/NOS/CO-OPS 8728690 Apalachicola, FL



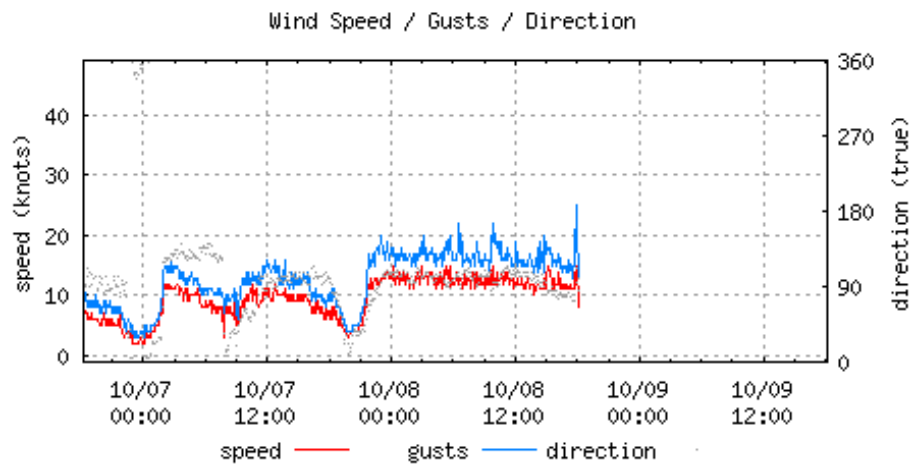
Last Observed Sample: 10/08/2018 18:12 (EDT). Data relative to MHHW

Observed: 1.36 ft. Predicted: -0.03 ft. Residual: 1.39 ft.

Historical Maximum Water Level: Jul 10 2005, 6.43 ft.

Next High Tide: 10/09/2018 04:22 (EDT), 0.04 ft.

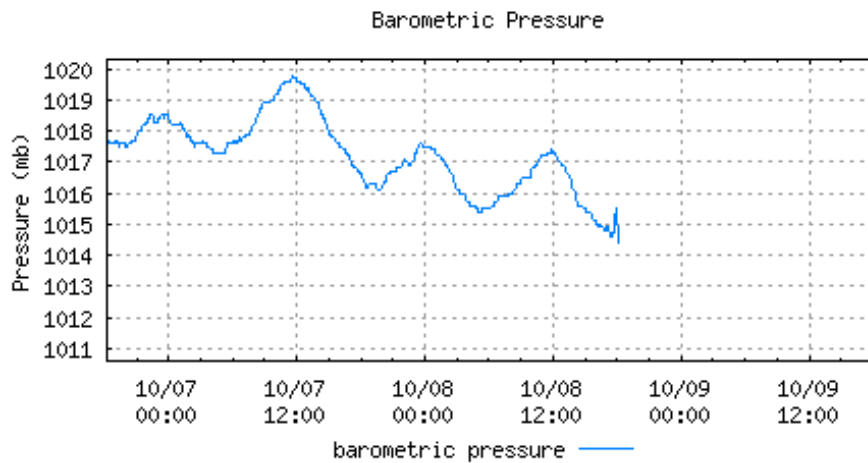
NOAA/NOS/CO-OPS 8728690 Apalachicola, FL



Last Observed Sample: 10/08/2018 18:12 (EDT)

Wind Speed: 11 knots Gusts: 13 knots Direction: 85° T

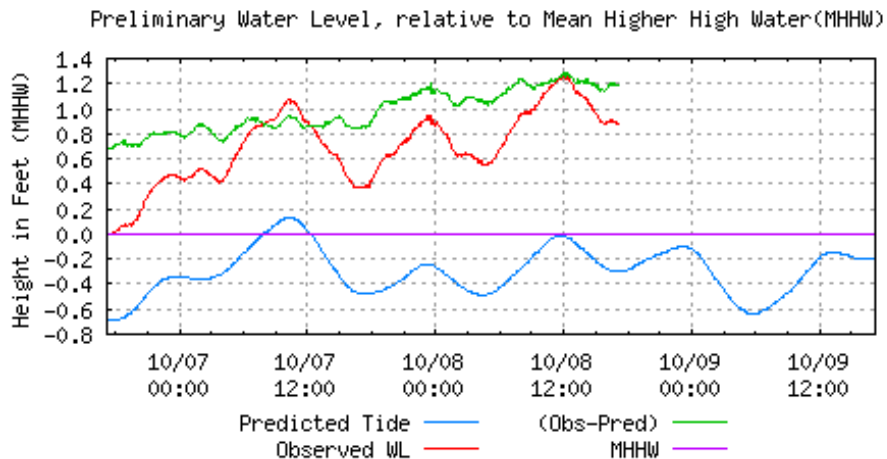
NOAA/NOS/CO-OPS 8728690 Apalachicola, FL



Last Observed Sample: 10/08/2018 18:12 (EDT)

Barometric Pressure: 1014.4 mb

NOAA/NOS/CO-OPS 8729108 Panama City, FL



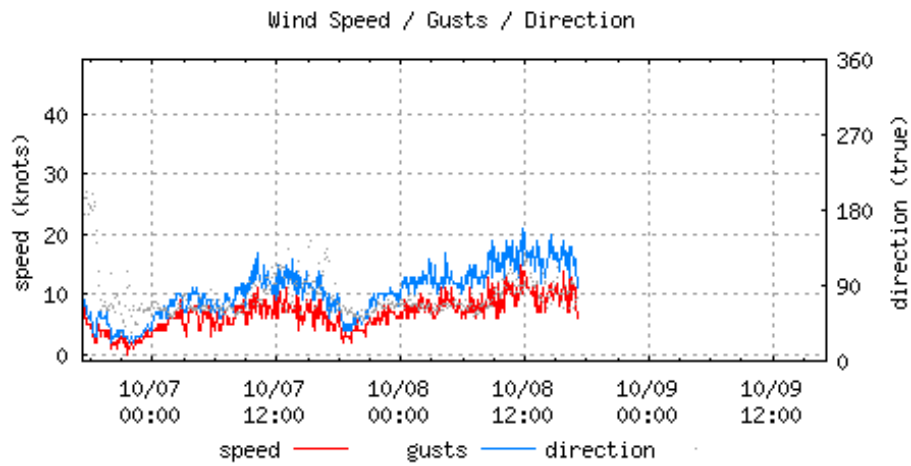
Last Observed Sample: 10/08/2018 17:06 (CDT). Data relative to MHHW

Observed: 0.88 ft. Predicted: -0.30 ft. Residual: 1.18 ft.

Historical Maximum Water Level: Oct 4 1995, 5.72 ft.

Next High Tide: 10/08/2018 23:11 (CDT), -0.10 ft.

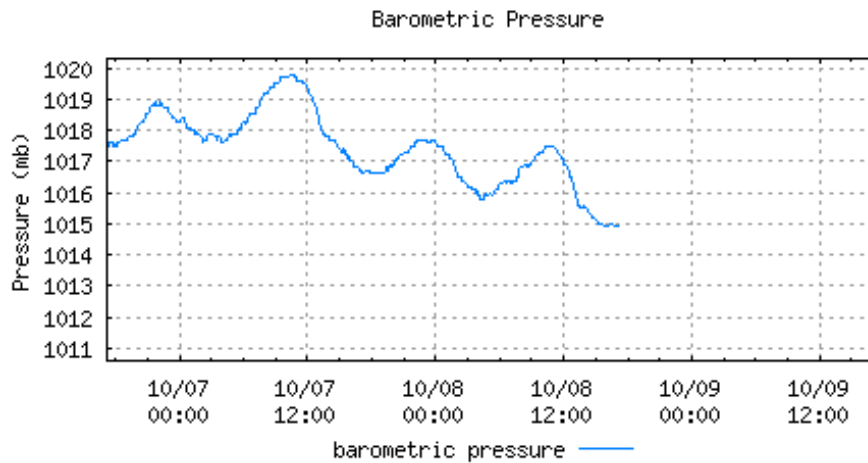
NOAA/NOS/CO-OPS 8729108 Panama City, FL



Last Observed Sample: 10/08/2018 17:06 (CDT)

Wind Speed: 6 knots Gusts: 11 knots Direction: 75° T

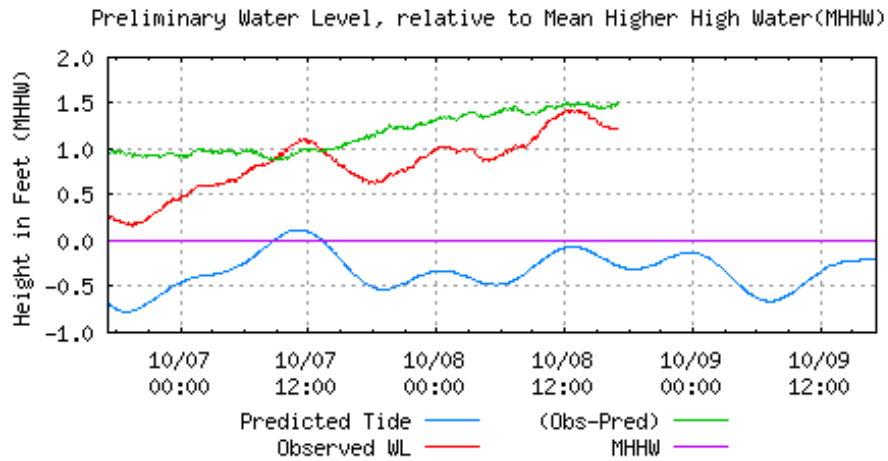
NOAA/NOS/CO-OPS 8729108 Panama City, FL



Last Observed Sample: 10/08/2018 17:06 (CDT)

Barometric Pressure: 1014.9 mb

NOAA/NOS/CO-OPS 8729840 Pensacola, FL



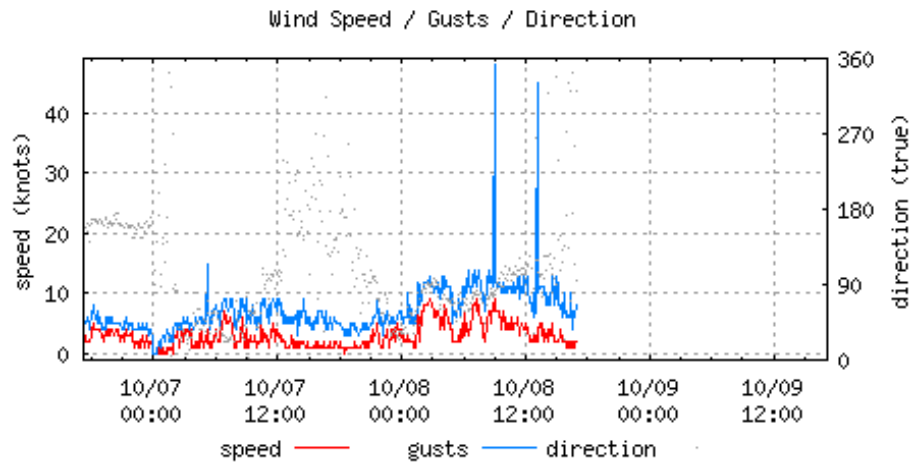
Last Observed Sample: 10/08/2018 17:00 (CDT). Data relative to MHHW

Observed: 1.23 ft. Predicted: -0.28 ft. Residual: 1.51 ft.

Historical Maximum Water Level: Sep 16 2004, 9.54 ft.

Next High Tide: 10/08/2018 23:44 (CDT), -0.12 ft.

NOAA/NOS/CO-OPS 8729840 Pensacola, FL

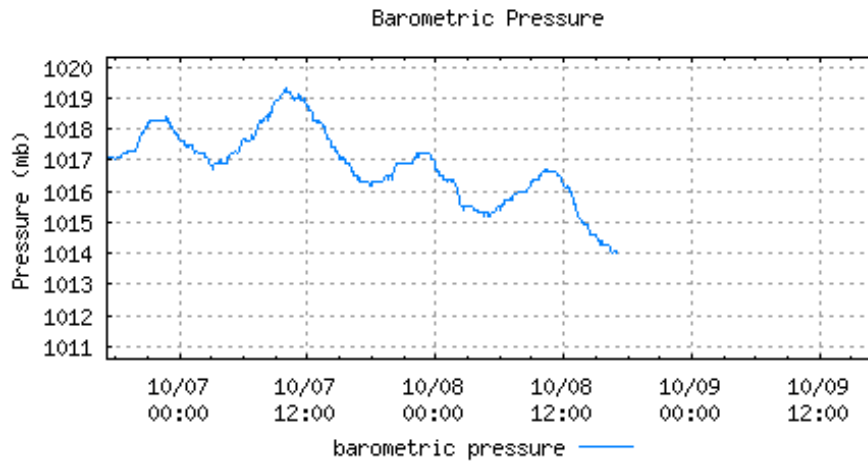


Last Observed Sample: 10/08/2018 17:00 (CDT)

Wind Speed: 2 knots Gusts: 8 knots Direction: 320° T



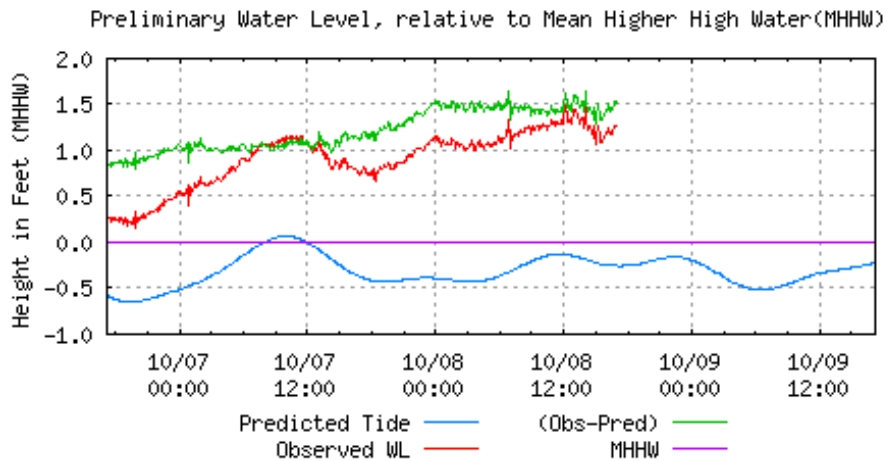
NOAA/NOS/CO-OPS 8729840 Pensacola, FL



Last Observed Sample: 10/08/2018 17:00 (CDT)

Barometric Pressure: 1014.0 mb

NOAA/NOS/CO-OPS 8735180 Dauphin Island, AL



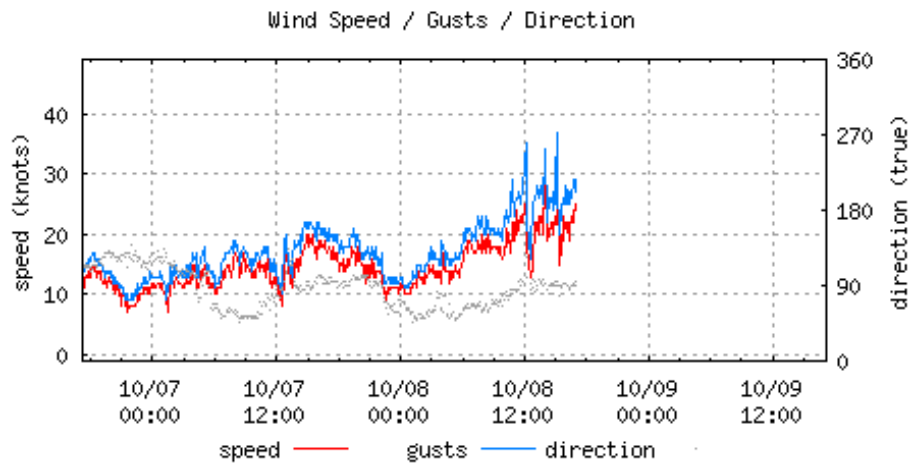
Last Observed Sample: 10/08/2018 17:06 (CDT). Data relative to MHHW

Observed: 1.30 ft. Predicted: -0.26 ft. Residual: 1.56 ft.

Historical Maximum Water Level: Sep 12 1979, 7.96 ft.

Next High Tide: 10/08/2018 22:23 (CDT), -0.16 ft.

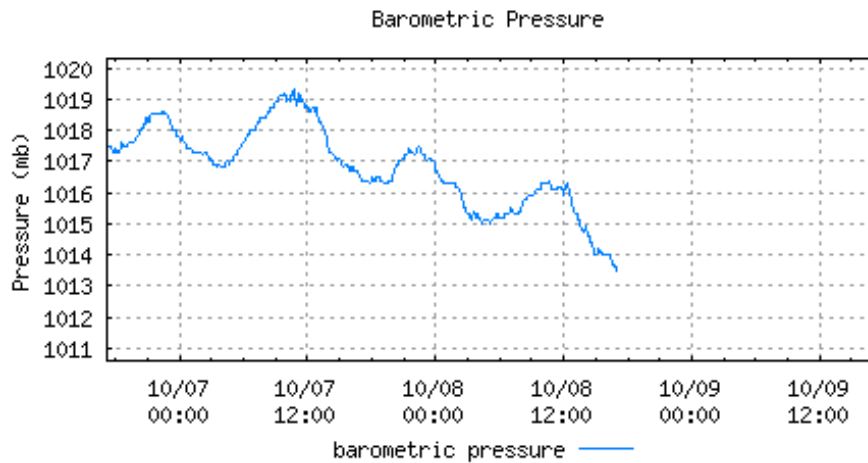
NOAA/NOS/CO-OPS 8735180 Dauphin Island, AL



Last Observed Sample: 10/08/2018 17:06 (CDT)

Wind Speed: 25 knots Gusts: 27 knots Direction: 91° T

NOAA/NOS/CO-OPS 8735180 Dauphin Island, AL

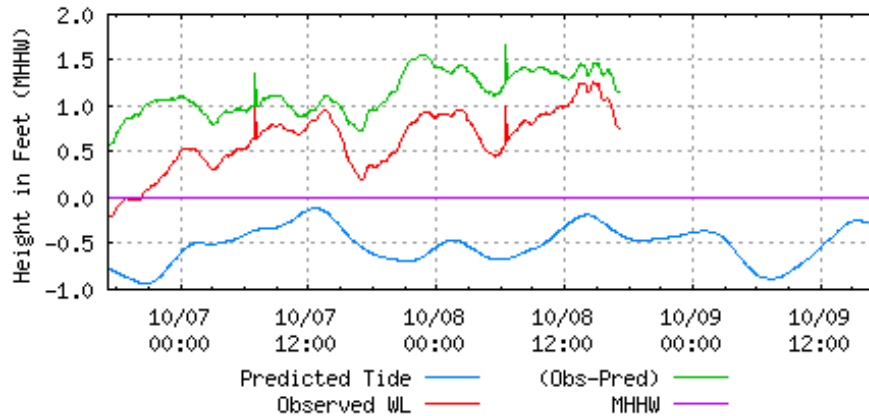


Last Observed Sample: 10/08/2018 17:06 (CDT)

Barometric Pressure: 1013.5 mb

NOAA/NOS/CO-OPS 8738043 West Fowl River Bridge, AL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/08/2018 17:06 (CDT). Data relative to MHHW

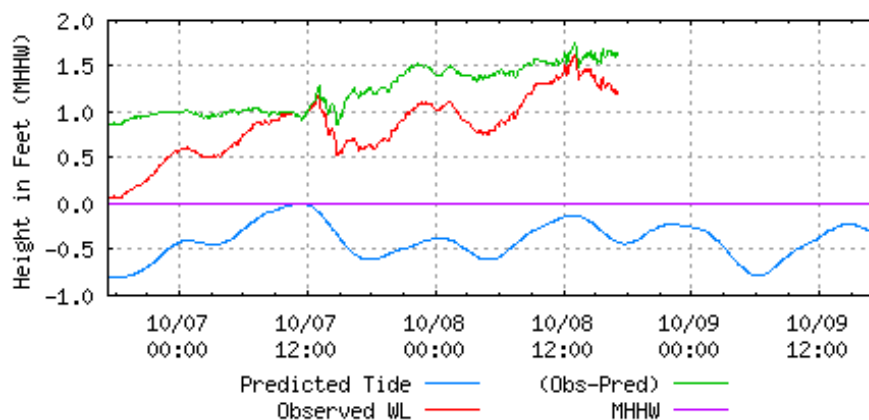
Observed: 0.76 ft. Predicted: -0.40 ft. Residual: 1.16 ft.

Historical Maximum Water Level: Oct 8 2017, 5.45 ft.

Next High Tide: 10/09/2018 01:05 (CDT), -0.37 ft.

NOAA/NOS/CO-OPS 8741533 Pascagoula NOAA Lab, MS

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/08/2018 17:06 (CDT). Data relative to MHHW

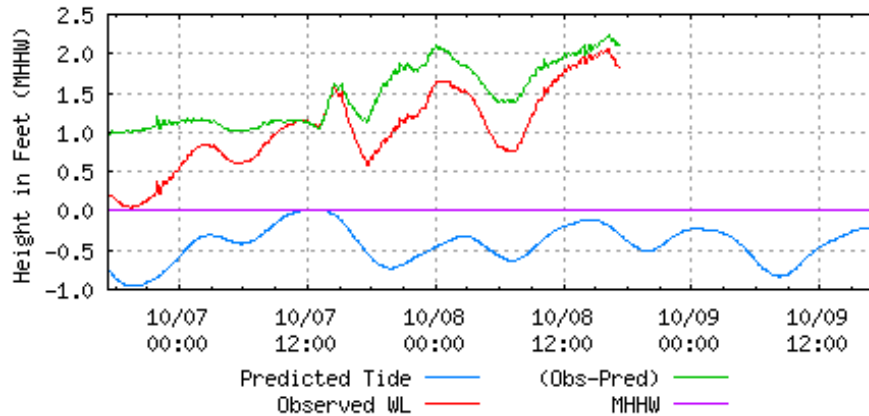
Observed: 1.23 ft. Predicted: -0.42 ft. Residual: 1.65 ft.

Historical Maximum Water Level: Oct 8 2017, 6.20 ft.

Next High Tide: 10/08/2018 22:05 (CDT), -0.23 ft.

NOAA/NOS/CO-OPS 8747437 Bay Waveland Yacht Club, MS

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/08/2018 17:12 (CDT). Data relative to MHHW

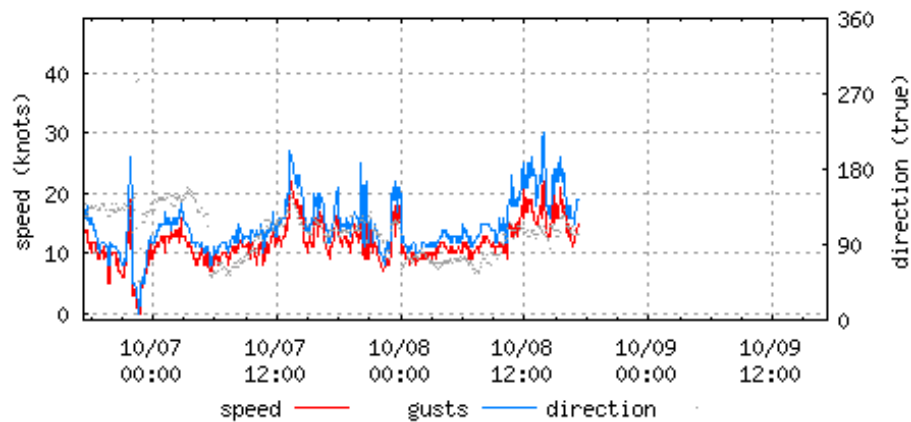
Observed: 1.82 ft. Predicted: -0.30 ft. Residual: 2.12 ft.

Historical Maximum Water Level: Sep 1 2008, 9.10 ft.

Next High Tide: 10/09/2018 00:24 (CDT), -0.23 ft.

NOAA/NOS/CO-OPS 8747437 Bay Waveland Yacht Club, MS

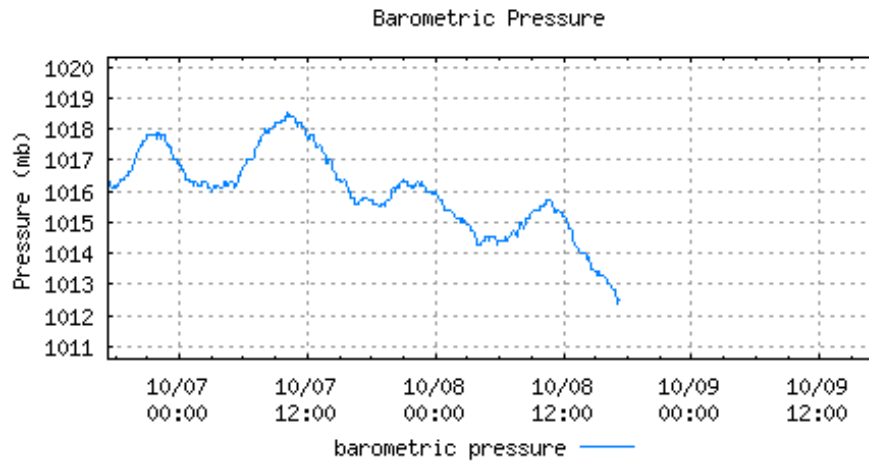
Wind Speed / Gusts / Direction



Last Observed Sample: 10/08/2018 17:12 (CDT)

Wind Speed: 15 knots Gusts: 19 knots Direction: 101° T

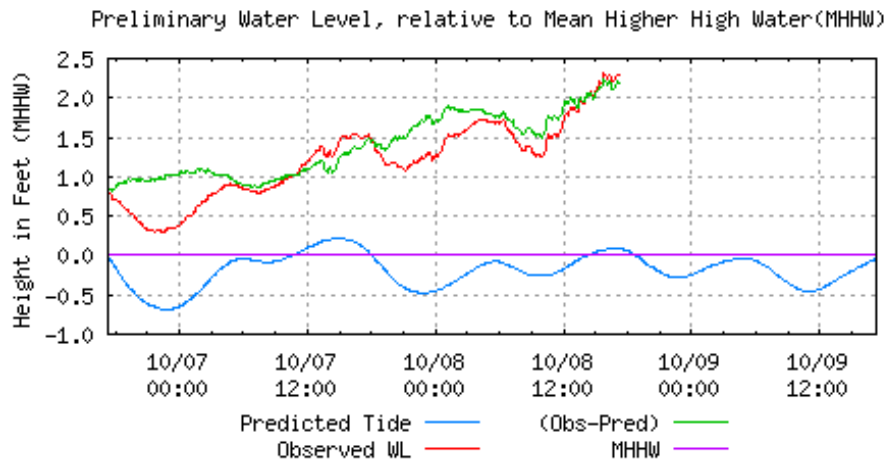
NOAA/NOS/CO-OPS 8747437 Bay Waveland Yacht Club, MS



Last Observed Sample: 10/08/2018 17:12 (CDT)

Barometric Pressure: 1012.5 mb

NOAA/NOS/CO-OPS 8761305 Shell Beach, LA



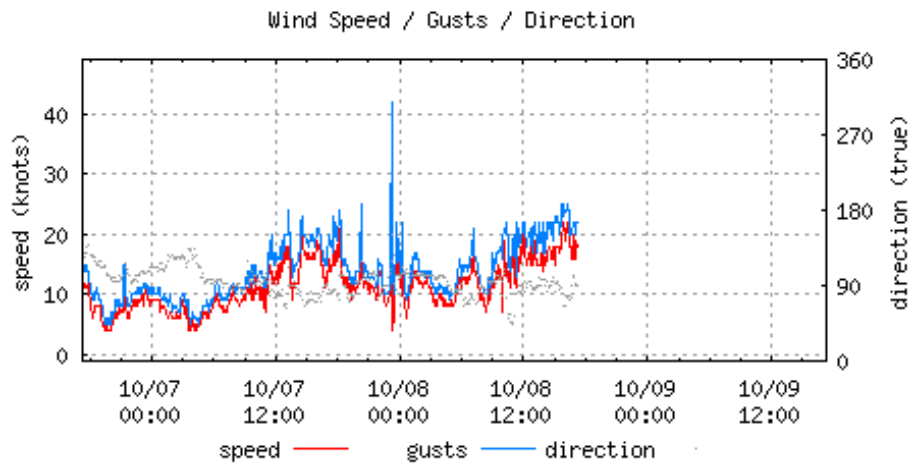
Last Observed Sample: 10/08/2018 17:12 (CDT). Data relative to MHHW

Observed: 2.28 ft. Predicted: 0.09 ft. Residual: 2.19 ft.

Historical Maximum Water Level: Aug 29 2012, 9.37 ft.

Next High Tide: 10/09/2018 04:51 (CDT), -0.04 ft.

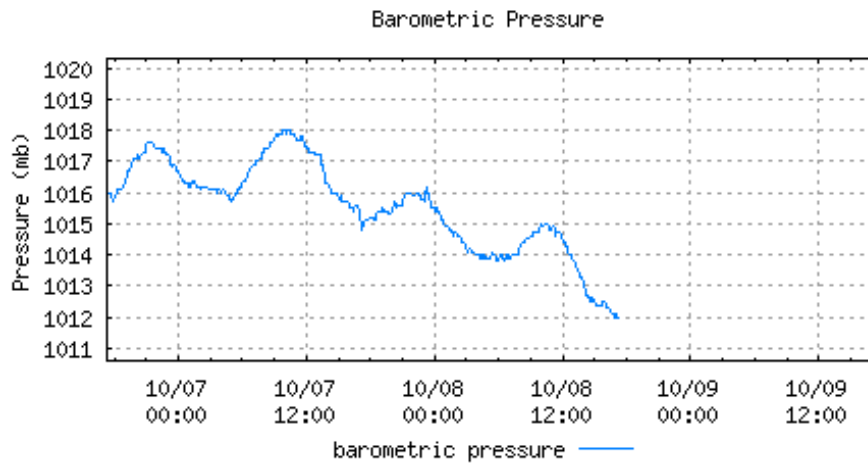
NOAA/NOS/CO-OPS 8761305 Shell Beach, LA



Last Observed Sample: 10/08/2018 17:12 (CDT)

Wind Speed: 18 knots Gusts: 22 knots Direction: 90° T

NOAA/NOS/CO-OPS 8761305 Shell Beach, LA



Last Observed Sample: 10/08/2018 17:12 (CDT)

Barometric Pressure: 1012.0 mb

Latest Water Level Observations on MHHW

Station ID	Station Name	Date/Time	Observed Water Level	Predicted Tide	Residual Water Level	24 Hour Maximum Storm Tide
8725520	Fort Myers, Caloosahatchee River, FL	10/08/2018 18:06 (EDT)	0.37 ft	-0.07 ft	0.44 ft	0.73 ft
8726384	Port Manatee, FL	10/08/2018 18:06 (EDT)	-0.26 ft	-1.08 ft	0.82 ft	0.92 ft
8726520	St. Petersburg, Tampa Bay, FL	10/08/2018 18:00 (EDT)	0.02 ft	-0.84 ft	0.86 ft	1.13 ft
8726607	Old Port Tampa, FL	10/08/2018 18:12 (EDT)	-0.01 ft	-0.73 ft	0.72 ft	1.01 ft
8727520	Cedar Key, FL	10/08/2018 18:12 (EDT)	-0.94 ft	-2.25 ft	1.31 ft	1.48 ft
8728690	Apalachicola, FL	10/08/2018 18:12 (EDT)	1.36 ft	-0.03 ft	1.39 ft	1.58 ft
8729108	Panama City, FL	10/08/2018 17:06 (CDT)	0.88 ft	-0.30 ft	1.18 ft	1.26 ft
8729840	Pensacola, FL	10/08/2018 17:00 (CDT)	1.23 ft	-0.28 ft	1.51 ft	1.42 ft
8735180	Dauphin Island, AL	10/08/2018 17:06 (CDT)	1.30 ft	-0.26 ft	1.56 ft	1.49 ft
8738043	West Fowl River Bridge, AL	10/08/2018 17:06 (CDT)	0.76 ft	-0.40 ft	1.16 ft	1.26 ft
8741533	Pascagoula NOAA Lab, MS	10/08/2018 17:06 (CDT)	1.23 ft	-0.42 ft	1.65 ft	1.62 ft
8747437	Bay Waveland Yacht Club, MS	10/08/2018 17:12 (CDT)	1.82 ft	-0.30 ft	2.12 ft	2.05 ft
8761305	Shell Beach, LA	10/08/2018 17:12 (CDT)	2.28 ft	0.09 ft	2.19 ft	2.31 ft

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